

*Application Serial No. 10/019,767  
Amendment and Response dated January 18, 2005  
Reply to Office Action mailed October 19, 2004*

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-12 (Cancelled)

13. (New): A golf ball comprising a core with an identification device located in a capsule embedded in the core, the identification device comprising a coded element and an aerial wherein the identification device further comprises a resiliently-mounted diaphragm, the coded element being mounted on the diaphragm, and wherein the capsule surrounds the diaphragm with room for relative movement therebetween.

14. (New): A golf ball according to claim 13 further comprising a plate located within said capsule and having first and second major surfaces facing in opposite directions, wherein said diaphragm is resiliently-mounted on said first major surface and said aerial is mounted on said second major surface.

15. (New): A golf ball according to claim 14, wherein said diaphragm comprises a tongue and said coded element is mounted on said tongue.

16. (New): A golf ball according to claim 15, wherein a hole is provided in said plate, and said coded element mounted on said tongue extends through said hole.

17. (New): A golf ball according to claim 14 wherein the diaphragm is conductive, and said aerial is connected to said diaphragm by a connection passing through said plate.

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18. (New): A golf ball according to claim 13, wherein the identification device is a radio frequency identification device.

19. (New): A golf ball according to claim 13, wherein the diaphragm is heat conductive.

20. (New): A golf ball according to claim 19, wherein the diaphragm is steel.

21. (New): A method of manufacturing a golf ball incorporating an identification device comprising a coded element and an aerial, the method comprising:

molding a capsule identification device in a capsule member with room for relative movement between the identification device and material of the capsule member, wherein means for protecting the identification device from the effects of impacts are molded in the capsule member;

adhering parts of a ball core to each other around the capsule member to form an encapsulated capsule member; and,

providing the encapsulated capsule member with a covering to form a golfball incorporating an identification device comprising a coded element and an aerial.

22. (New): A method according to claim 21, wherein the parts of a ball core form a cuboid shape and are subsequently processed to have a spherical shape.